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LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 399

NOTES AND COMMENTS.

Under this heading, as occasion arises, the Bulletins issued by this Department will contain, as an appendix, such comment as may seem necessary or advisable upon matters relating to the work of the Department in connection with the administration of the Adulteration Act, the F rtilizers Act, the Feeding Stuffs Act or the Proprietary Medicines Act.

It frequently happens that correspondents ask information regarding the above Acts, of such a nature that the matter in question possesses general interest, and comment upon it would prove acceptable and useful to others than the immediate questioner. In such cases the reply may find a place in these columns. For convenience of reference these notes will be numbered in series.

A. McGILL, Chief Analyst.

LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BLLLETIN No: 399

MARMALADE

OTTAWA, April 25, 1918.

J. U. VINCENT, Esq., K.C., B.A., L.Ph., Deputy Minister of Inland Revenue.

Sir.—I beg to hand you a report upon 148 samples purchased by our inspectors as marmalades, in October, November and December of last year.

Our standards for Je G. 1044) published in October, 1912, recognizes marmalade as a species of the standards identify these articles.

Webster defines marine a preserve or confection made of the pulp of fruit, as the orange, quince aliv) pear, apple, etc. boiled with sugar, and brought to a consistence like jam."

Wiley (Foods and then: Adulteration, p. 382) says: "The term marmalade is applied to a special character of fruit product prepared in the same manner as jam, in which the fruit is not so thoroughly pulped. This class of fruit products is so nearly the same as jam as not to need any special description."

It remains that, so far as Canada is concerned, the term marmalade is actually employed to distinguish a jam made essentially from oranges. This is proved by the fact that, of the 148 samples herein reported, and purchased by our inspectors simply as marmalades, 141 samples are nominally orange products.

Of 154 samples purchased as marmalades in 1911 (see Bulletin No. 233) 145 samples were made from oranges. Both collections considered, we find that 95 per cent of so-called marmalades purchased in Canada, are made from oranges.

If it were possible to restrict the term marmalade to a jam made from oranges and other citrus fruits it would become possible to fix standards for such a jam with much greater definiteness than is now the case; and the information furnished in what follows would enable the requisite constants to be determined.

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diate conThe work of analysis of the samples herein reported has been largely in the hands of Dr. Geo. H. Brother, late of this staff; and he has done a considerable amount of investigation for the purpose of ascertaining the normal character of orange jam (marmalade).

The special feature which I wished Dr. Brother to investigate, was a method for the determination of pectin, present in excess of the amount natural to the fruit or fruits employed in manufacture of the jam; or in this instance, of orange jam or marmalade. Pectin is the name given to a compound of the carbohydrates araban and galactan (Koydl and Nestornitz Chem. Abst., 1914, p. 3725) which is present in all fruits to some extent and causes their juice to jelly when properly cooked up with sugar. As is well known, all fruits will not jelly; this is due to lack of sufficient pectin. Apples and quinces are especially rich in pectin, as well as some classes of beets and turnips. It is impossible to fix the pectin content of any fruit, as this varies with the season, condition of ripeness (Kopetski, Chem. Abst., Vol. 2, p. 1901) as well as with the species. Oranges, in general, do not contain enough pectin to form a firm jelly, and what they do contain is principally in the rind (Harley, Chem. Abst. 6 (1912), p. 2267).

Because of the fact that oranges do not, as a rule, contain sufficient pectin to form a jelly, some manufacturers add pectin obtained from other sources (usually from apples, the cores, skins, and other apple waste) but of course pectin may also be obtained from turning, or any other vegetable material rich in the substance. Pectin is a perfectly unobjectionable food material; and the commercial article commands a price sufficiently high to make it impossible to regard its use as intended to materially cheapen the jam. It is used chiefly for the purpose of giving desired consistency and jellylike firmness to the product. At the same time it must be remembered that its use makes possible a reduction of the actual fruit content of the jam, without impairing consistency; and where the fruit used is high in price as in the case of oranges, there may be temptation to reduce the amount of fruit used, and to secure firmness in the product by addition of pectin. If the value of a specific kind of jam is held to depend upon the actual content of a named fruit used in its manufacture, and pectin be employed in order to give the impression that a larger percentage of fruit (oranges, in the case of marmalade) is present than the facts would justify, such use of pectin would constitute adulteration under Section 3 (b) of the Act. For this reason it becomes important to define a method by which added pectin may be determined.

Dr. Brother did a very considerable amount of work on this subject, but, his services being comandeered for work in connection with war munitions, we have accepted his resignation, and the work placed on record by him will have to be completed at a later time. It is not yet sufficiently complete to justify publication, and our staff is

too fully employed upon other work to take up this investigation just now.

In samples made entirely from oranges, or other citrus fruits (and this is true of 144 of 148 samples now reported) the number given under Insoluble Solids furnishes a fairly good indication of the actual fruit used in preparation of the article. The number in question varies from less than 1 per cent to over 6 per cent, and may be averaged at about 3 per cent. Where the finished article has notable consistency, it is suggestive of the presence of pectin, added as such, or in the form of apple, or other pectin containing material. In samples prepared by Dr. Brother, the insoluble solids in the finished product were 7.04, 5.26 and 3.64 per cent respectively, from bitter oranges, thick skinned sweet oranges, and thin skinned sweet.

If these marmalades, as made in the laboratory from known material, could be accepted as fixing standards for insoluble solids in marmalade, it would appear that most of the samples herein reported have been made with too little citrus fruit, and that many of them owe their consistency to added pectin. I do not, however, think that it would be justifiable to draw sweeping conclusions from the limited data at our disposal, and consider it best to place on record the information obtained regarding

these samples without further comment, at the present time.

The data now placed on record will be used at some future time in further investigation of this subject.

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e of es a umged tive conthe ges, be hat and ink our ing In the absence of specific standards for this variety of jam, all the samples herein reported must be accepted as satisfactory marmalades, with exception of the following, which fail to meet published standards:—

Numbers 78216, 79634, 76218 and 76223 contain salicylic acid, as a preservative, without declaration of the fact upon the label. This contravenes Order in Council of April, 1914 (published as Departmental Circular G. 1111) and therefore constitutes adulteration under the Act.

Numbers 81914, 80893 and 79634 contain notable amounts of glucose, without declaration on the label, and in this fail to meet requirements of Order in Council of October, 1912 (published as Circular G. 1044) and are adulterated under the Act.

Numbers 52820 and 76222 contain small amounts of glucose, evidently added for other reasons than as a sugar substitute. I have recommended that these samples be passed.

I would further recommend publication of this report as Bulletin No. 399, with the understanding that the data which it furnishes will be utilized in later study of the subject treated.

> I have the honour to be, Sir, Your obedient servant,

> > A. McGILL, Chief Analyst.

ion.				Cu	mt.	Name and of Manufacture as given by t	r or Furni-her
Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	C-ntx.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK-

191	7.		1						
Nov.	20	Marmala	le.	78211 Tho	m. L McDermott, St	. 8	jara.	45	A. G. Neal, St
11	22	**		78212 M.	E. Grass, St. John, N. B	. 3	"	84	John, N.B. Furnivall New,
11	22	**		78213 Wal	lter Gilbert, St. John B.	, 3		- 1	Stuart's, Ltd.,
"	26		-	78214 W.	A. Porter, St. John B.	, 3	1		Sarnia. Libby, McNeill & Libby, Chatham,
ú.	26			78215 Stee	ves Bros., St. John, N. B	. 3		90	Ont. J. H. Wethey, St.
o	27	"		78216 Yer Jo	xa Grocery Co., St	. 3		- 1	Catharines. The Wentworth Orchard Co.
Dec.	11	11		78218 Smit	th Bros., Sussex, N.B.	3	. 1	75	Ltd., Hamilton. W. J. Brigger,
**	12	**		78219 Geo. to:	A. Robertron, Mone	3			McGregor Specialty Co., To-
**	13	**		78220 S. M	lelanson, Moncton, N.B.	3		75	ronto.

DISTRICT OF QUEBEC CITY-

Nov.	- 1	Marmali	ide.	71164	A. Drolet, 71 Quebec.	2 St.	Valuer,	3	lbs.		90	Libby, McNeill & Libby, Chicago,	Mfrs
**	6	**	•	71105	11			3	H	1.0	06	Wagstaffe's.	"
**	6	11		71106	- 0			3	16	1	90	н	*
17	6	-11		71107		0		3	31.	1.	0.3		H
11	7	17		71109	J. F. Falarde Couronne, Q	au, 126	de la	3	**	1	75	Unknown	Unknown
12	8	11		71109	E. Turcotte, Quebec.	71 D	efoses,	3	11	1	54	Imperial Extract	Mfra
п	8			71110	C. Riverin, t	5 Cou	ronne,	3	11	1	90	Co., Toronto. Libby, McNeill &	
**	8	is		71111	11			3	**	1	90	Aylmer Can. Co.,	N
19.	8	11		71112	Z. Turcotte, Quebec.	71 D	efoses,	3	**	1	75	Aylmer, Ont. E. D. Smith, Winona.	
**	8	**		71113	"	"		3	**	1.2	20	Crosse & Black- well, London. Eng.	*

Inspector's Report. (Is not an expression of opinion.)			Result					
	Solids,			Sucrose.		et. Ihe	4	Remarks and Opinion of the Chief Analyst.
	Inachable.	Soluble.	Total.	Water.	Residual.	Original	Sugars oth Sucruse,	Na of Sa

JOHN C. FERGUSON, INSPECTOR.

	p. c.	p. c.	p. e.	p. c.	p. c. p.c.	p. c.	
Strawberry	4.83	67 : 60	72:43	27:57	28.80	38 80	78211
	2.70	71 45	74 15	25.85	26.00	45 45	78212
Orange	2:38	69:30	71 68	28:32	41.60	28:30	78213
W	2.28	60.85	63:13	36:87	15.08	45:77	78214
	2.62	63 20	65 82	34:18	32.72	30:48	78215
M	2 63	67:10	69.73	30 27	16.50	50:51	78216 Contains salicylic acid
	0.99	67:00	67:99	32 01	17:20	49.80	78218 Adulterated.
Grape Fruit	5.19	67:40	72:55	27 '45	36:40	31.00	78219
Orange	4:56	64:85	69:41	30.59	12.81	52:04	78220

F. X. W. E. BELAND, INSPECTOR.

1					1		
Orange	2:25	63:05	65:30	34.70	8:30	 54.75	274.74
Ginger	2.78	70.65	73.43	26:57	32.60	 38.05	71.0
Orange	2.76	64.60	67:36	32 64	28 62	 35.98	71106
Pine Apple	4:41	71:05	75.46	24:54	24 90	 46.15	71107
Jelly Shred	2.87	70:35	73 22	26 78	12.67	 57 68	71108
	3.10	72.50	75.60	24 40	35.60	 36.90	71109
	2:45	63.20	65.95	34 . 05	13.73	 49.77	71110
	2.49	64.10	66.29	33 41	34 70	 29 40	71111
	1.57	71.90	73:47	26:53	20.95	 50.95	71112
Orange	2.17	64 35	66 52	33 48	21.70	 42 65	71113

					Co	st.	Name and Address of Manufactur or Furnisher as given by the Vendor.
Date of Collection.		Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Manufacturer. Furnisher.
					D	IST	RICT OF QUEBEC PROVINCE
191	7.						
Oct.		Marmalade.		Charlemagne Taillon, St. Jerome.		90	Alex. Cairns & Sons Paisley Scot.
**	29	61	5692	Pierre Simard, St. Jerome.	3 "	90	Wagstaffe Ltd
86	29	**	5693	Charlemagne Huot, "	3 "	75	Aylmer Canning
Nov.	6	te	5503	J. E. Turbide, Ste. Therese	3 "	60	Co., Hamilton. Uptons
11	20	**	5515	R. Touchette, Ste. Agathe	3 "	90	Crosse & Blackwell
Oct.	22	11	7762	des Monts. Joseph Rioux, Trois Pistoles	3 "	36	Lytle, Toronto
18	24	*1		J. Desrosiers, Rimouski		90	Wagstaffe Ltd.
						D	ISTRICT OF THREE RIVERS
						1	
Oct.	24	Marmalade .	7573	Magnan Bros., Joliette	3 jars.	1.03	E. D. Smith, Win
11	26	11	7584	J. H. R. Deblois, St. Thomas	3 "	63	ona, Ont.
11	27	11	7587	de Joliette. Charles Peltier, St. Gabriel,	3 "	90	Crosse & Blackwell
Nov,	5	99	8002	Brandon A. L. Caisse, Berthierville	3 "		London, Eng. Wagstaffes, Ham- ilton.
							DISTRICT OF MONTREAL
Oct.	22	Marmalade .	78961	Dupuis Frere, Ltd., St. Cath-	Q in-	66	Possibella
19	23	90	78962	erine St. E., Montreal. H. Martel, 809 St. James St	o lets.	,	Furnival Ltd
- 14	23			Montreal.		45	L. Semetry, Mon- treal.
14		10		Geo. Brouillat, 105 Colborne St., Montreal.		45	Mrs. Lukes Montreal.
	23	18		D. Payette, 595 St Valier St., Montreal.		45	T. Upton, Co
19	24	11	1	W. J. Brown, St. Catherine		90	Shirriffs
11	24	11	78996	Goodwins Ltd., St. Cather- ine St., W., Montreal.	3 "	75	E. D. Smith, Win-
11	24	**	78997		3	75	ona, Out. Wagstaffes Ltd
14	24	11	78998	10 11	3	75	J. H. Wethey Ltd
н	24	"	78999	Antine Sirios, 660 Ontario St.	3 "	60	St. Catharines.
11	24	**	1	E., Montreal. C. Guay & Co., 313 Ontario			Lindners Ltd.
				St. E., Montreal.			

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			Result	s of An	alysis.				
Inspector's Report. (Is not an expression		Solida			Suci	ruse.	than c.	je.	Remarks and Opinion of the Chief Analyst.
of opinion.)	Insoluble.	Soluble.	Total.	Water.	Residual.	Original.	Sugars other than	No. of Sample.	of side Office Aumiyes.
. CADIEUX AND	J. H.	RIOU	X TE	MPOR	ARY	INSPI	CTOR	s.	
	р. с.	р. с.	p. 2.	р. е.	р. с.	р. с.	p. c.		
•••••	1.93	70.79	72.72	27 28	20 · 04	62.95	50.75	5689	
	1.62	66 15	67 . 77	32 · 23	18.88	62 05	47 27	5692	
•••	1.86	68 34	70.20	207-96	46 57	63.08	21 .77	5693	
	1 · 20	65 69	66 89	33 11	39-87	63 17	25.82	5503	
	1.156	69-12	70.68	29 32	26 W	63 · 68	42.70	5515	
•••	1.98	67 - 47	69 45	30.55	30.50	55:73	36 88	7762	
	1.30	68:54	69.84	30.16	28:63	65 70	39.91	7770	
OR. V. P LAVALLE	EE, IN	SPEC	TOR.						
,									
• • • • • • • • • • • • • • • • • • • •	1.24			33.85	4:47		60.14	7573	
	0.70	73 24		26.06	7.68			7584	
******	1.04	67 03						7587	
••••	2 02	66 67	68.69	31 · 31	41.15	61.77	25 52	8002	
. J. COSTIGAN, IN	SPECT	ror.							
				1					
	1.90	66.89	68:79	31 · 21	33 49	64 43	33 40	78961	
	2.42	68 22	70.64	29.36	19 05	45 20	49 17	78962	
	1.08	69 44	70.52	29 · 48	37 44	68 23	82:00	78963	
• • • • • • • • • • • • • • • • • • • •	0.74	67 54	83. AS	31 72	12 60	56.85	54.94	78964	
	2 19	76 19	72:38	27 · 62	17 93	64 43	52 26	78965	
	0.80	71.90	72 80	27 · 20	6.16	64 95	65 74	78996	
	3.31	68 · 61	70.85	29 · 15	20.12	61 . 77	48 - 49	78997	
	1:47	66 77	68 24	31.76	33 · 21	61 . 72	33.56	78998	
						WW 00	=0.=0	70000	
IcGregor Specialty	1 · 13	62 53	63 66	36 34	3 94	21.01	28, 20	1 9999	

				Сси	t.	Name and of Manufacturer as given by t	or Furnisher,
Date of Collection.	Nature of Sample,	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Manufacturer.	Furnisher.
					D	ISTRICT OF VA	LLEYFIELD-
1917	1					G. P. Jacobs	
	1 Marmalade.		Geo. Dixon, Huntingdon, P.Q.			Geo. B. Jacobs. Oakville, Ont. Imp. Extract Co.,	
Nov.	8 11	79302	Hill.		ĺ	Toronto.	
11	8 "	1	J. W. A. Smith, Dalkeith, Ont.	-	30	1	
			W. J. Martin, Buckingham		90	Aylmer Canning	
11 2	19 11	79305	Co-operative Society, Val- leyfield.	3 "	75	Co Ltd.	
		1	I	·		DISTRICT	OF OTTAWA-
Oct.	Marmalade.	80453	F. F. Adams, Cardinal	3 jars.	75	J. H. Wetheys, Ltd., St. Chath- ermes.	, ,
Nov.	3 "		W. H. Jones, Pembroke		90		H. N. Bate Sons, Ltd. Ottawa.
11	3 "	80475	Fenton & Smith, Pembroke	1 pail.	1.65	Crosse & Blackwell, England.	
**	6 "	80478	Kavanagh Bros., Ottawa	3 jars.	90	E. D. Smith, Win- ons, Ont.	
	6 " .	80479		3 "	1.35	Jas. Keiller & Sons, Ltd., Dundee.	*** *******
**	6 " .	80481	11 11	3 "	1.35	11 11	
11	9	80491	J. R. Cook, Winchester	3	1.05	Wagstaffes, Ltd., Hamilton.	
в .	12 " .	80498	Bryson Graham Ltd., Ottawa	1 tin	1.65	Jas. Keiller & Soas, London,	
	20 " .	80506	King George Grocery, 27- Bank St., Ottawa.	3 jars	75	Eng. The Waddell Preserving Co., Ltd., Brantford.	
**	20	. 80510	11	3 "	75	Ont. T. Upton Co., Ltd., Hamilton.	
		-			`	DISTRICT O	F KINGSTON
Nov.	9 Marmalada	81911	J. A. Lemmon, Kingston	3 iara	60		W. G. Craig
	6		T. Brenton, Belleville	1		Fretz Ltd., Ham-	Co., Kingsto
**			A. W. Carwardine, Belleville	-	75	ilton. Glassco's, Hamilton	
"	6		A. G. Vermilyes, Belleville	_		St. Clair, Preserving Co., Sarnia.	
11	6	8191	J. H. P. Young, Belleville	3 "	45	Ford's, Belleville	

		R	leaults	of Ana	alysis.						
-	s	olids.			Sucre	se.	18m		Remarks and Opinion		
Inspector's Report. (Is not an expression of opinion).	Insoluble.	Soluble.	Total.	Water.	Residual.	Original.	Sugars other than aucrose, etc.	No. of Sample.	of the Chief Analyst.		
J. COSTIGAN, AC	TING	INSP	ECTO	R.			,	,-			
	р. с.	p. c.	p. c.	р. с.	p c.	p. c.	р. с.				
	0.79	66:88	67 67	32 33	39 33	59.87	27.55				
	1 23	70 19	71 42	28.58	19.97	66:04		79302			
Stealing Brand	2:08	67:39	69 47	30 53	13.61	63 69	53 78	79303			
Betty's	1.69	65 90	67 59	32.41	18 83	59:39	47:07	79304			
	2.80	71 33	74.13	25 87	37 · S9	63 17	33.44	793 05			
J. A. RICKEY, INSI	ECTO	R.									
Pure Orange	-	66.86	68.18	31 82	23.84	63.68	42.98	80453			
Betty's Absolutely Pure.	1 .95	66 · 42	68 37	31 · 63	21 · 09	57 · 66	45.33	80473			
Orange	1:73	69:79	71 52	28:48	17:14	65 19	52.65	80475			
Labelled Pure	0.66	71:35	72:01	27:99	22.08	64.91	49.27	80478			
Malted	1.32	72 10	78:42	26.58	24.91		47 19	80479			
Sugarless	2.02	58:10	60.12	39.88	0.00		58.10	80480	Non-Sugar Marmalade for diabetics.		
Guarantee not to contain preservative or	2:40	66:29	68.69	31 31	24 · 13	61 10	42.16	80491	GIN OF BACK		
glucose.	1 83	71.79	73.62	26:38	13 29	65 82	58:50	80498			
De luxe Orange	0.87	68 · 13	69:00	31 00	26:04	61.91	42.09	80509			
Pure	1:02	71.77	72.79	27 21	20 12	67:28	51 65	80510			
JAMES HOGAN, IN	SPEC	TOR.									
	9		1	1	1		45 40				
	0.41	65:06	65:52		1		41.97				
	1:44	68-52	69.96	30.0	13 61		54.91	t .			
	0.68	69 3	70.00	30.00	18-52		55.80	81914	Contains glucose. Adu urated. Polarisco direct +100'8 at 22'; vert +82'0 at 22°;		
							29:30		cose 49%.		

	100				C.	oát.	Name and Address of Manufacturer or Furnishe as given by the Vendor.	er .
The of Calculation	Date of Collective	Nature of Sample,	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Manufacturer. Furnish	er.
							DISTRICT OF KINGST	ON-
191 Nov.		Marmalade	81916	W. H. Ireland, Trenton .	3 jars	75	Wagstaffe, Hamil-	
**	6	11		77 770 716 1 440	3 41	45	ton.	
11	7	lt.	1	12 30	3 н	75	Co., Hamilton.	
	7	.,)	F. H. Brown, Port Hope		75	Toronto.	
11	8	17	1	Matthews-Blackwell, Ltd.,			Upton, Hamilton. St. Williams Fruit Co.	
-				1		1 1	DISTRICT OF TORON	го-
Nov.	5	Marmalade.	80981	Medland Bros., 73 Front St.	iars.	65	Wagstaffe, Ltd.,	_
**	5	tr	80982	Jas. Lumbers & Co. Ltd.	ı	1	Hamilton. E. D. Smith, Win-	
11	õ	11	80983	H. P. Eckert & Co. 33	"	e	ona.	
11	5	11	RUGRI	Eby Blain Tad 91 Fe to		61	Maclure Lan Ltd., Torc	nto
"	5	tr	80985	St. E., Toronto, T. J. Medland, Ltd., 1303 King St. E., Toronto.	11		ducts, Sarnia. The Canadian H. made, P. & P. Co., Toronto.	
**	6	11		Imperial Extract Co., 103 Matilda St., Toronto.		45	Co., Toronto. Vendors.	• • • •
	7	ę q	80987	The Robt. Simpson Co., 3 Ltd., Queen and Yonge	10	84	Glassoo, Ltd.,	
	7	16	80988	Ltd., Queen and Yonge Sts., Toronto. The T. Eston Co., Ltd., 3 Queen and Yonge Sts., Toronto.	1.	45 1	P. McGregor, Tor-	
	7	**	80989	" " 3	.,	90 1	Vagataffe, Ltd.,	
11	7	19	80996	Scott Bros., 190 King St. E., 3 Toronto.	.0	35 I	Hamilton. Join. Canners, Ltd., Hamilton.	
							DISTRICT OF HAMILTON	N-
Oct.	23 \	farmalade.	80891	Lindners, Ltd., Brampton. 3	jarn.	51 V	endors	
n :	23	. "	80692	Simpson & Co., Guelph3	64	45 A	ylmer Can. Co., Ltd., Aylmer,	
. 1	24	**	anang I	Huether & Todd, Guelph3	**	39 3	Ont, t. Clair Preserv- ing Co., Sarnia.	

			Result	s of A	nalysis.				
Inspector's Report. (Is not an expression		Solida			Suc	rose.	than	s.	Remarks and Opinion
of opinion).	fnsoluble.	Soluble,	Total,	Water.	Residual.	Originia).	Sugars other than sucrose, etc.		of the Chief Analyst.
Concluded.		,						-	
	p. c. 1 92	p. c. 65 71	р. с. 67-63	p. c. 32 37	p. c.	p. c.	р. с. 32·55	8191	6
	1:08	55 19	56 27	43.73	23.61	52:43		8191	
	1:45	70:44	71.89	28.11	27:20	59.55	43 24	5191	8
••••	1:06	68 49	69.55	30.45	53 93	66.33	14:56	8191	
	1.10	71 49	72 · 59	27:41	40 · 49	65.19	31.00	81920	
H. J. DAGER, INSP.	ECTO	R.							I
Pure Orange	1.88	67 97	69 : 85	30 · 15	28 : 56	61 · 24	39 · 41	80981	
	0.87	70 42	71 29	28.71	2 6 · 3 2	67 28	44 10	N0982	
Curling Brand Seville Orange.	1.16	72:08	73 24	26.76	43.83	63.93	28 25	8C 382	
New Pure English	0.82	71 13	71 95	28.05	36:20	61 · 42	34.93	80984)
Pure Orange	1.23	61 38	62.91	37 · 09	6.23	54:33	55.15	80985	•
Shirriffs Imp. Scotch Brand, warranted pure, contains only cane sugar and seville granges.	2.34	69 57	71.91	28:09	23 · 15	63 68	46 42	80986	
Pure	2.14	70.82	72.96	27.04	5.06	60.33	65.76	80987	
Pure Orange	1.28	68.78	70.68	29.94	15 49	61 · 28	52 29	80988	•
Green Fig	0.88	70.50	71 48	28 · 52	46 · 85		28:65	80989	
Red Seal	3.56	70.78	74:34	25 66	40.38	64.95	30.40	80990	
H. J. DAGER, ACTIN	NG 1N	SPEC	TOR.	1	-				
	2 22	61 . 80	64 · 02	35 98	6 93	55 · 40	54.87	80891	
Drange	3.14	70;64	78 78	26 22	39 71	67:50	30 98	80892	
Pure Orange	0.41	72 19	72.63	27:37	11.84		60.65	S0 893	Contains glucose. Adul terated. Polariscope div ect +106·0 at 22°; polar iscope invert +92·8 at 22° Glucose 55%.

	1			;	Cost,		Name and or the Manufactur as given by the	er or Furnisher
Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	:	Quantity.	-	Manufacturer.	Furnisher.

DISTRICT OF HAMILTON-

191	7.			1
Oct.	24	Marmalade.	80894 G. E. Zettel, Kitchener 3 jars.	54 The T. A. Lytle Co., Ltd., Tor-
**	24	11	80895 R. A. McDonald, Kitchener, 3 "	75 Stuart's, Ltd., Sar-
Ħ	25	n	80896 Elvin Shantz, Waterloo, 3 "	54 Bettys Saratoga
**	26		80897 John Sloan, Galt	45 J. H. Wethey, Ltd., St. Catherine.
"	27	11	80898; The Waddell Preserving Co., 3 "Clarenc" St., Brantford.	60:Vendors
**	30	11	80869 Furnivall New, Ltd., Cum-3 "berland and Gage Sts., Hamilton.	65, "
"	30	te .,	S0900 The T. Uptor Co., Ltd., 193 Delaware Ave., Hamilton.	60

DISTRICT OF WINDSOR-

	i			
Nov.	5 M	larmala	de.	65328 Mann & McClennan, Ayl-3 jars. 90 C. & E. Morton, London, Eng.
11	6	11		65331 H. G. Charleton, Aylmer, 3 11 90 Wagstaffe
17	7	11		65343 J. A. Calder, Simcoe 3 " 75/Norfolk Evap. Co., Simcoe.
H	7	**		65345 G. W. Lea, Simcoe 3 " 75 Imperial Ext. Co., Toronto.
**	8	ч		65347 Edgar Hicks, Tillsonburg. 3 71 St. Williams, Fruit and Preserves.
11	8	11	••	65349 Chas. Williams & Son, Tile S 45 Dom. Canners, Hamilton.
D.	8	**		65352 W. Bone, Tillsonburg 3 " 75 Avlmer Canning
11	8	n		65355 Hogarth & Son, Tillsonburg 3 60 McLaren's I m perial Chees Co., Toronto.
Hr.	9	10	.	65356 Butler Bics., St. Thomas. 3 " 75 J. H. Wethey, St
**	13	18		65263.P. Dodds & Son, Watford. 3 75 Wentworth Pre- serving Co., Hamilton.
**	13	**	٠	65265 Rogers & Jackson 3
11	14	**		65375 A. Scarsbrook, Petrolea
11	14			65380 W. C. Palmer, Sarnia 3 " 75 Glassco Ltd.,

1		1	Results	of An	alysis.		1	-		
Inspector's Report.	Solids.			Sucrose.			ned	,	Remarks and Opinion of the	
(Is not an	Inwhible.	Soluble,	Total.	Water.	Residual.	Original.	Sugars other than sucrese, etc.	No. of Sample	Chief Analyst.	
Concluded.										
	p. c.	р. с.	р. с.	р. с.	р. с.	р. с.	р. с.			
Sterling Brand. Pure.	1.80	69 42	71 · 22	28.78	3 3 ·13	66 76	39 · 29	80894		
Pure English Orange	1.33	69 65	70.98	29 02	28.03	60.80	41.62	80895		
rape Fruit, Home	1.85	66 67	68 52	31 48	17:03	60:50	49 64	80896		
Made. Pure Orange	1.70	67 26	68:96	31:04	33 · 63	63 17	33 · 63	80897		
De Luxe, Pure Orange.	0.23	67:50	68 · 03	31 . 97	31 95	58:29	35 · 55	80898		
Pure	1:22	66:14	67 36	32 64	18:23	60 49	47 91	80869		
						- 1				
		65.74 OR.	66 44	33.56	29 · 19	61 42	36.55	80900		
			66 44	33 56	29.19	61 42	36.55	80900		
JOHN TALBOT, INS	SPEC'1					61 42	1			
JOHN TALBOT, INS	SPEC'1	OR.	72 18	27 · S2	5.02	65 60	65 08	65328		
JOHN TALBOT, INS	SPEC'1	70·10 66·67 72·28	72·18 69 39 73·62	27 · S2 30 61 26 · 38	5·02 37·93 17·62	65 60 59.55 63.17	65 06 26 74 54 66	65328 65331 65343		
Orange	2:08	70·10 66·67 72·28 70·69	72·18 69 39 73·62 72·67	27 · S2 30 · 61 26 · 38 27 · 33	5·02 37·93 17·62 40·6 <i>o</i>	65 60 59:55 63:17 66:15	65 08 26 74 54 66 30 60	65328 65331 65343 65345		
Orange	2·08 2·72 1·34	70·10 66·67 72·28 70·69	72·18 69 39 73·62	27 · S2 30 · 61 26 · 38 27 · 33	5·02 37·93 17·62 40·6 <i>o</i>	65 60 59:55 63:17 66:15	65 08 26 74 54 66 30 60	65328 65331 65343		
Orange	2·08 2·72 1·34 1·38 1·14	70°10 66°67 72°28 70°69 70°20 68°07	72 18 69 39 73 62 72 67 71 34 71 21	27 S2 30 61 26 38 27 33 28 66 28 79	5·02 37·93 17·62 40·63 32·03 31·97	65 60 59:55 63:17 66:15 63:17	65:08 26:74 54:66 30:60 38:17	65328 65331 65343 65345 65347 65349		
Orange	2·08 2·72 1·34 1·38 1·14	70·10 66·67 72·28 70·69 70·20 68·07	72·18 69·39 73·62 72·67 71·34 71·21 74·04	27 · S2 30 · 61 26 · 38 27 · 33 28 · 66 28 · 79 25 · 96	5·02 37·93 17·62 40·63 32·03 31·97 40·59	65 60 59 55 63 17 66 15 66 15 63 17 58 92	65 08 26 74 54 66 30 60 38 17 36 10 31 95	65328 65331 65343 65345 65347 65349 65352		
Orange	2·08 2·72 1·34 1·38 1·14	70·10 66·67 72·28 70·69 70·20 68·07	72·18 69·39 73·62 72·67 71·34 71·21 74·04	27 · S2 30 · 61 26 · 38 27 · 33 28 · 66 28 · 79 25 · 96	5·02 37·93 17·62 40·63 32·03 31·97	65 60 59 55 63 17 66 15 66 15 63 17 58 92	65 08 26 74 54 66 30 60 38 17 36 10 31 95	65328 65331 65343 65345 65347 65349 65352		
Orange	2 08 2 72 1 34 1 98 1 14 3 14 1 50	70·10 66·67 72·28 70·69 70·20 68·07 72·54 62·99	72 18 69 39 73 62 72 67 71 34 71 21 74 04 64 41	27 · S2 30 · 61 26 · 38 27 · 33 28 · 66 28 · 79 25 · 96 35 · 59	5·02 37·93 17·62 40·63 32·03 31·97 40·59 20·34	65 60 59 55 63 17 66 15 63 17 58 92 59 40	65 08 26 74 54 66 30 60 38 17 36 10 31 95	65328 65331 65343 65345 65347 65349 65352 65355		
Orange	2 08 2 72 1 34 1 38 1 14 3 14 1 50 1 42 0 76	70·10 66·67 72·28 70·69 70·20 68·07 72·54 62·99	72·18 69·39 73·62 72·67 71·34 71·21 74·04 64·41 70·39	27 S2 30 61 26 38 27 33 28 66 28 79 25 96 35 59 20 61	5·02 37·93 17·62 40·63 32·03 31·97 40·59 20·34 11·62	65 60 59 55 63 17 66 15 63 17 58 92 59 40	65.08 26.74 54.66 30.60 38.17 36.10 31.95 42.65	65328 65331 65343 65345 65347 65349 65352 65355		
Orange	2 08 2 72 1 34 1 98 1 14 3 14 1 50 1 42 0 76 1 48	70·10 66·67 72·28 70·69 70·20 68·07 72·54 62·99 69·63 70·80	72:18 69:39 73:62 72:67 71:34 71:21 74:04 64:41 70:30 72:28	27 S2 30 61 26 38 27 33 28 66 28 79 25 96 35 59 20 61 27 72	5·02 37·93 17·62 40·63 \$2·03 31·97 40·59 20·34 11·62 36·78	65 60 59 55 63 17 66 15 63 17 58 92 59 40 59 09 60 95	65 · 08 26 · 74 54 · 66 30 · 60 38 · 17 36 · 10 31 · 95 42 · 65 58 · 01	65328 65331 65343 65345 65347 65349 65352 65355 65356 65363		
Orange	2 08 2 72 1 34 1 98 1 14 3 14 1 50 1 42 0 76 1 48	70·10 66·67 72·28 70·69 70·20 68·07 72·54 62·99 69·63 70·80	72 18 69 39 73 62 72 67 71 34 71 21 74 04 64 41 70 39 72 28 70 16	27 S2 30 61 26 38 27 33 28 66 28 79 25 96 35 59 20 61 27 72 29 84	5·02 37·93 17·62 40·63 32·03 31·97 40·59 20·34 11·62 36·78 28·32	65 60 59 55 63 17 66 15 63 17 58 92 59 40 59 09 60 95	65 · 08 26 · 74 54 · 66 30 · 60 38 · 17 36 · 10 31 · 95 42 · 65 58 · 01 34 · 02	65328 65331 65343 65345 65347 65349 65352 65355 65366 65363		

	ď				C	ost,	Name and Address of Manufactures or Furnisher, as given by the Vendor.
	Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Centa	Manufacturer. Furnisher.
			-		DIS	TRI	CT OF NORTHERN ONTARIO-
Nov	. 8	Marmalade	. 78680	F. C. Preston Co., Hailey- bury.	3 jare	1.00	P. Co., St. Wil-
**	12	а.	. 78683	Grills Co., New Liskeard	3	78	lians. Glassco Ltd., Hamilton.
11	12			Frank Heasman, New Liskeard.		60	Aylmor Canning Co., Hamilton,
- 19	12	11		Binkley Co., New Liskeard.		96	Furnivall New,
ŧŧ	17	"		Rava & Pianjetti, Cobalt			Co., Hamilton.
н	17	11 4.	78700	Jos. Zion, Cobalt	3 11	75	Home Made Mig. Co., Toronto.
			0				DISTRICT OF MANITOBA—
	-						
Nov.	6	Marmalade	79630	A. McTavish, Minto, Man., 1	lb	90	Wagataffa Co., Ltd
**		12	79631	R. W. Frank, Minto, Man.	10	90	Hamilton. Crosse & Blackwell,
**	;	51	79632	R. E. Sadler, Elgin, Man	19	00	London, Eng. S. Williams P Co.,
17	12	**	79633	Fort Garry Market Co., Garry St., Winnipeg.	99	60	St. Williams, Ont Graham Prod. Co.
18	13	**	79634	Avenue Store, 1114 Portage Avenue.	Ħ	45	Winnipeg. St. Clair Preserv. Co., St. Clair, O
11	14	10	79638 1	P. J. Halleman, Swan Lake		85	F
н	27	11	79636	Man. B. Gimosky 1260 Selleigh	**		Empress Mfg Co., Co., Vanc.
Dec.	1	44	79637	Ave., Winnipeg. A. R. Christie, 353 Portage Avenue, Winnipeg.	11		Aylmer CanningCo Hamilton. Ansley, Hallberg, St. Louis Co, Ltd
•	4	11	79638 8	3. R. Harden, 1308 Portage		90	Winnipeg. Libby McNeill &
+1	4	**	79639 J	Avenue, Winnipeg. ames Stanley, 739 Ashburn Street, Winnipeg.	17	90	Libby, Guelph. Shirriffs, Toronto.
-						DIST	RICT OF SASKATCHEWAN—
Dec.	18 N	farmalade	76991 J	. D. Munroe, Eyebrow 3	are.	90 7	No Vary Product- Moosejaw Groc.
n	6	11		T D Dall 4 1 11 1	00	. 1	Co., Toronto . Moosejaw. mperial Ext. Co., A. McDonald &
-11	6	"	1	amfound Co. Fact A			Co., Toronto. Co., Moosejaw. Mfrs. Ltd., Vanc.

			Res	ults of	Analy	nin.					
Inspector's Report. (Is not an		Solida.	Solida.		Suc	rose,	han		Remarks and Opinion		
expression of opinion.)	Inwluble.	Soluble.	Total.	Water.	Residual.	Original.	Sugars other than sucross, etc.	No. of Sample.	of the Chief Analyst.		
THOS. E. ARMSTRO	ong, i	INSPE	C FO 3	•							
Curling Brand	p. c.	p. c.	р. с. 72·27	р. с. 27·73	p. c. 42 97	p. c.	p. c. 27·80	79890			
				. 10	12 01	0, 00	21 00	10000			
••••••	1:08		68:55			64:33	51:37	78683			
	2.19			29 29			30.09	78687			
********	1.82										
Рипо Отписо	0.88		59:04				47:51	78699			
Pure Orange	2:30	64.98	67 28	32 72	2'64	54.73	62 34	78700			
J. B. COSGROVE, IN	SPEC	TOR.									
	2.58	63-15	65-68	34 · 32	34-07	53-58	29.08	796 30			
••••	1.97	69-70	71.67	28 - 33	31.97	55 - 43	37 · 73	79631			
Curling Frand	2 14	67 - 45	69 - 59	30-41	31 - 59	62 - 46	35 - 86	79632			
Orange, Lemon and Grape fruit-	5 - 53	56-20	61.73	38 - 27	20 - 28	51-44	35.92	79633			
Orange	4-18	61 - 45	65-63	34.37		- 1					
				01 01	22.31	**	39 · 14	79634	ylic acid. Polariacope Direct +79-1 at 20° C Invert +50-1 Glucos		
	5-64	66 · 60	72.24				39 · 14 56 · 65		Contains Glucose and Sali ylic acid. Polariscope Direct +79-1 at 20° C Invert +50-1 Glucos 32%, Adulterated.		
Orange. Empress Bd	5·64 2·74	1	72·24 69·99		9.95				Contains Glucose and Salivlic acid. Polariscope Direct +79-1 at 20° C Invert +50-1 Glucos 32%, Adulterated.		
Orange, Empress Bd		1		27.76	9.95	59-40	56-65	79635	ylic acid. Polariacope Direct +79-1 at 20° C Invert +50-1 Glucos		
Orange, Empress Bd	2.74	67 - 25	69 · 86	27·76 30·01	9·95 35·28 18·77	59·40 63·08	56·65 31·97 46·78	79635 79636	ylic acid. Polariacope Direct +79-1 at 20° C Invert +50-1 Glucos		
Orange, Empress Bd Burdick's Winnipeg	2·74 4·31 3·05	67 · 25 65 · 55	69 · 86 65 · 75	27·76 30·01 30·14	9·95 35·28 18:77 19·60	59·40 63·08 61·24 58·48	56·65 31·97 46·78 43·10	79635 79636 79637	ylic acid. Polariscope Direct +79-1 at 20° C Invert +50-1 Glucos		
Orange, Empress Bd Burdick's Winnipeg Imperial Scotch Bd	2·74 4·31 3·05 2·86	67 · 25 65 · 55 62 · 70 69 · 05	69·99 69·86 65·75 71·91	27·76 30·01 30·14 34·25 28·09	9·95 35·28 18:77 19·60	59·40 63·08 61·24 58·48	56·65 31·97 46·78 43·10	79636 79636 79637 79638	ylic acid. Polariscope Direct +79-1 at 20° C Invert +50-1 Glucos		
Orange, Empresa Bd Burdick's Winnipeg	2·74 4·31 3·05 2·86 DAN	67 · 25 65 · 55 62 · 70 69 · 05	69·99 69·86 65·75 71·91	27·76 30·01 30·14 34·25 28·09	9·95 35·28 18·77 19·60 27·59	59-40 63-08 61-24 58-48 65-52	56-65 31-97 46-78 43-10 41-46	79635 79636 79637 79638 79639	ylic acid. Polariscope Direct +79-1 at 20° C Invert +50-1 Glucos		
Orange, Empress Bd Burdick's Wianipeg Imperial Scotch Bd L. H. HALL & J. M.	2·74 4·31 3·05 2·86 DAN	67 · 25 65 · 55 62 · 70 69 · 05	69·99 69·86 65·75 71·91	27·76 30·01 30·14 34·25 28·09 CORS.	9·95 35·28 18·77 19·60 27·59	59-40 63-08 61-24 58-48 65-52	56-65 31-97 46-78 43-10 41-46	79635 79636 79637 79638 79639	ylic acid. Polariscope Direct +79-1 at 20° C Invert +50-1 Glucos		

					C	ost.	Name and Address of Manufactur or Furnisher as given by the Vendor.
100	Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Manufacturer. Furnisher.
_						DI	STRICT OF SASKATCHEWAN
Dec.		Marmalade.	76977	Stevenson Bros., Shaunavon	3 jars	90	St. Williams F. P. Campbell. Wi Co., St. Williams son & Strathd
**		11	76980	McNichol & Brown, Shau-	11	75	Waddell Pres. Co., Regina.
Nov	. 13	,,	78583	H. B. Hall & Sons, Lloyd-	10	75	Ltd., Brantford. Chivers, Histon,
ir	15			minster Tarbel Bros., No. Battleford	"	90	J. H. Wethey, St.
11		"		Hub Clothiers, No. Battle-	"	75	Catharines. Shirriff, Toronto
11	20	.,		ford. Jacob Goldstein, Radisson.		90	
10	27	.,		A. Gunn, Fielding.	"		St. Williams, Nor- folk, Ont.
17	29	11		Borden Trading Co., Borden	**	90	Burdick's, Winni-
		"	01000	Corden Trading Co., Borden	11	76	"
		1	1	1			DISTRICT OF ALBERTA-
Oct.	24	Marmalade.	52817	The John Irwin Co., Ltd., 3	liana	75	Man Farman Cal
**	24	**		Calgary. Wm. Quirk, Calgary		1	Mrs. Eaman, Calgary. J. H. Wethey, Ltd., St. Cather-
*	25	**	52919	Jenkins & Co., East Cal-3	.,	90	ines. Chivers & Sons, Ltd., Cambridge,
"	25	00	52820	Frizzles Grocery, East Cal-3		75	Eng. King Bead Mfg. Co. Ltd., Mis-
**	26	**	52821	Mrs. R. Berber, 509 4th St., 5 East Calgary.	**	90	Jas. Robertson & Son, Paisley,
10,	26	34	52822	Maitland & Co., 334 8th 3 Ave., East Calgary.	"	75	Scot. No Vary Products Co., Ltd., To-
84	26	++	52823	" 3	,	75	W. H. Malkin &
##	29	**	52824	W. E. Lord Co., Ltd., Red 3	a	90	Co., Ltd., Vanc. Imperial Extract
11	30	89		Deer. A. M. Campbell, Lacombe 3	89		Co., Toronto. Wagstaffe, Ltd.,
11	30	+,		Lawson & Co., Ltd., Wetas-3 kiwin.	"		Hamilton. St. Williams F. P. Co., Ltd., St.
-					DIS	TRI	Williams, Ont. CT OF ROCKY MOUNTAINS—
ίσν.	2	Marmalade .	68521	Star Grocery, Nelson 3	-	1	The McDonald Jan. Co., Nel-
**	2	н	68522	3	.,	75	son, B.C. J. T. Bealby Nel.
н	5	11	68530	R. A. Smith, Moyie, B.C. 3			son, B.C.
**	8			F. Roo, Elko 3		- 1	Hamilton.
19	15	1		Trites Wood Co., Fernie 3			J. H. Wethey, St
	- 1	1		Total Co., Petale	"	75	Budick's, Winnipeg.

		-	-			-	-
$-\mathbf{M}$	-	- 1.7	100.7	 •	-		

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ufacturer by the

nisher.

EWAN-

oll. Wil-Strathdee

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			Res	sults of	Analy	nis.			,	
Inspector's Report. (Is not an expression of		Solids.			Suc	rose.	1		Remarks, and Opinion o	
opinion).	Insoluble.	Insoluble.		Water.	Residual.	Original.	Sugars (ther than sucrose, etc.	No. of Sample.	the Chief Analyst.	
Concluded.										
St. Williams Brand	p.c. 1.5 ⁶	p.c. 71-56	p.c. 73·12	p.c. 26 · 88	p. c. 37 · 31	p.c. 61 · 23	p.c. 34-25	76977		
	1.45	61.90	63 - 35	36-65	27 - 44	58-48	34-46	76980		
	1.10	71-50	72.60	27 - 40	21.56	66-45	49-94	78583		
	2.03	65-00	67 - 05	32-95	28-04	61 - 24	36.96	78588	,	
	2.32	67 - 40	69.72	30 - 28	20.73	63.08	46-67	78594		
	2-19	72-66	74-79	25 - 21	48.70	61.86	23.90	78600		
	1.36	67 - 20	68-56	31 - 44	11.53	58-48	55-67	81804		
	1.43	67 - 50	68-93	31 - 07	8.06	56-04	59-44	81806		
gar, Pure Fruit. Pure Orange Oranges and Sugar	3-19	86·20 72·30		32·49 24·52		58 · 48 65 · 21	-	52818 52819		
Oranges and Sugar only.	3-18	72-30	75-48	24-52	32-33	65 - 21	39-97	52819	(Contains a little Glucose	
Pure Orange	2.24	68-15	70.39	29-61	32-41		35-74	52820	Polariscope direct + 39 invert - 3.8. Glucos less than 9 p.c. Pass,	
Scotch	4-15	69 - 20	73-15	26-85	32.48	59 - 40	36.72	52821	, and a second	
No Vary Bo-Ka Brand.	3.75	67 - 35	71.10	28-90	34-75	58-48	32.60	52822		
Oranges and Sugar	1.92	70-80	72-72	27 - 28	26.15	58-48	44.6	52823		
only. Malkins best. Shirriffs Shredded Orange.	0.74	72.00	72.74	27 - 26	21.48	65-82	50-52	52824		
	2.60	66 - 50	69-10	30-90	18-16	52.35	48-34	52825		
Fine Old English, Pure.		68-30	70-07	29.93	30 - 91	65 - 21	37 - 39	52826		
	1.77					1	'			
Curling Brand, Seville Orange.				ı						
Curling Brand, Seville	SPECT	OR.	72-88	27 - 12	55.76	67-59	13.19	68521		
Curling Brand, Seville Orange.	SPECT	OR. 68-95				67·59 57·18				
Curling Brand, Seville Orange.	8PECT 3-93 6-76	COR. 68-95 62-60	69 - 36	30-64	10.55		52.05	68522		
Curling Brand, Seville Orange.	3·93 6·76 3·46	COR. 68-95 62-60 63-10	69·36 66·56	30.64	10·55 18·68	57-18	52·05 44·42	68522 68530		

4				Co	et.	Name and Address or Furn as given by t	inher.
Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor,	Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER-

1917				
Nov.	16	Marmalade .	Contine of the life	e Stanley,
**	19		Vancouver. 2500 Main St., 3 " 75 Ayline	alla, B.C. r Canning Hamilton.
11	19	"	76218 Mt. Pleasant, Grocery, 2345 3 " 75 Robins	sons, Hamil-
61	20		76220 Elliott & Co., 15th Ave. and 3 " 90 Wagst	affe. Ltd.
11	22	"	76221 Braidwood's Grocery, 8643 " 75 Mrs. Commercial Drive, Vanc. " 75 Mrs. St.	Pound, 2849
**	23	и	ville St., Vanc. 75 L. No Ltd.	couver. sel & Sons, London,
**	23	16		. H. Malkin, Ltd., Vane.

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cturer

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			Re	sults o	Analy	reis.			
Inspector's Report. (Is not an expression of		Solids			Su	rose.	er than	.ppe.	Remarks and Opinion of the Chief Analyst,
opinion).	aduble.	duble.	otal.	ater.	-sidual.	iginal.	gars oth	No. of Sam	Analyst.

G. G. ARMYTAGE, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
Stanley	3-43	64-90	68-33	31-67	21 - 65	60.02	48-25	76216	
	4-64	62 - 15	66-79	33 - 21	42-01	59.70	20-14	76217	
**** ****** *****	-28	50-85	59-13	40-87	11-48	47 - 69	39-37	76218	Contains Salicylic Acid. Adulterated.
	4.37	61 - 40	65-77	34 - 23	38-96	55-91	22.44	76220	
Mrs. Pound's	2.72	65-35	68-07	31.93	18-99	61.91	46 - 36	76221	
	1.89	70-85	72-74	27 - 26	17 - 47		53 - 38	76222	Polariscope direct + 18-1 invert-4-2 Glucose indi-
Malkius Best	1.89	69 - 76	71.59	28-41	38-14	66-01	31 - 56	76223	cated less than 1%. Pass. Contains Salicylic Acid. Adulterated.